

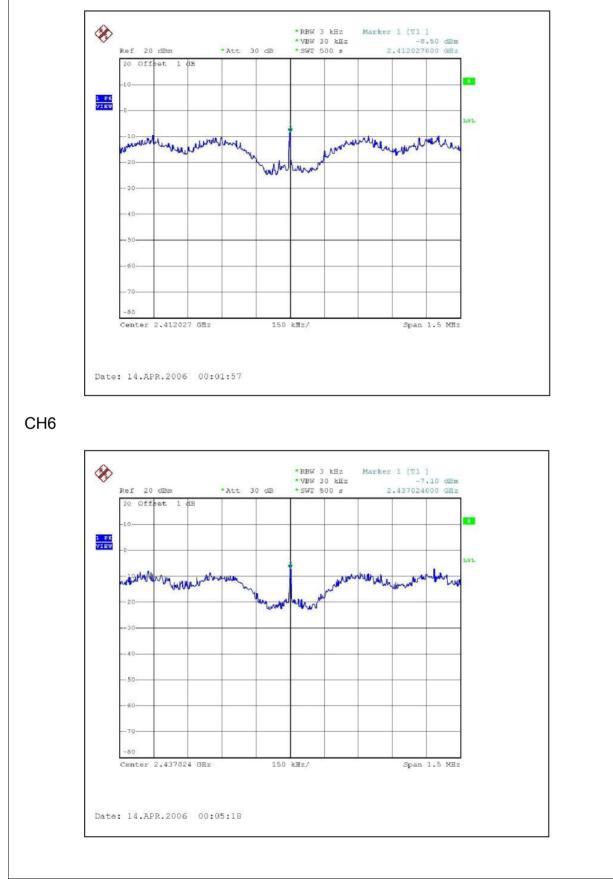
802.11g OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH, 964hPa
TESTED BY	Moris Lin		

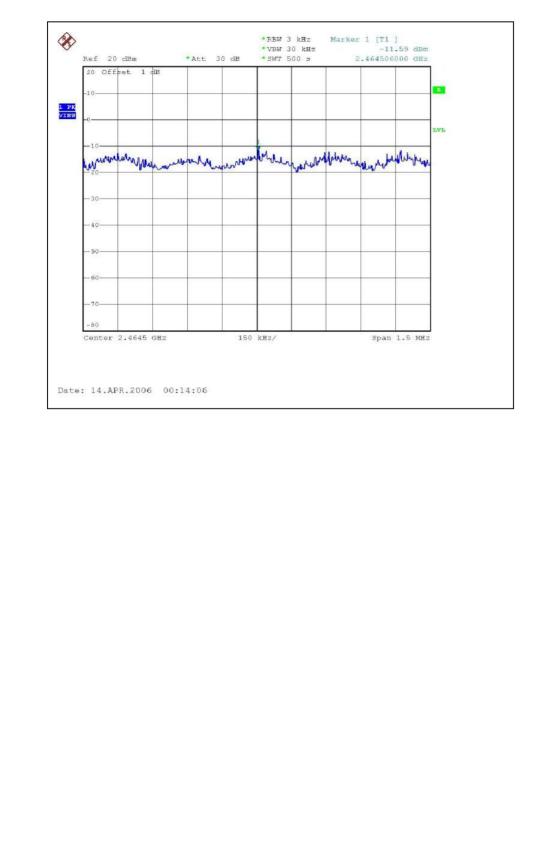
CHANNEL	CHANNEL FREQUENCY	RF POWER LEVEL IN 3kHz BW (dBm) MAXIMUM		PASS / FAIL			
	(MHz)		CHAIN 1	CHAIN 2	LIMIT (dBm)		
1	2412	-8.50	-7.17	-8.23	8	PASS	
6	2437	-7.10	-7.66	-6.84	8	PASS	
11	2462	-11.59	-10.82	-11.10	8	PASS	



FOR CHAIN 0: CH1



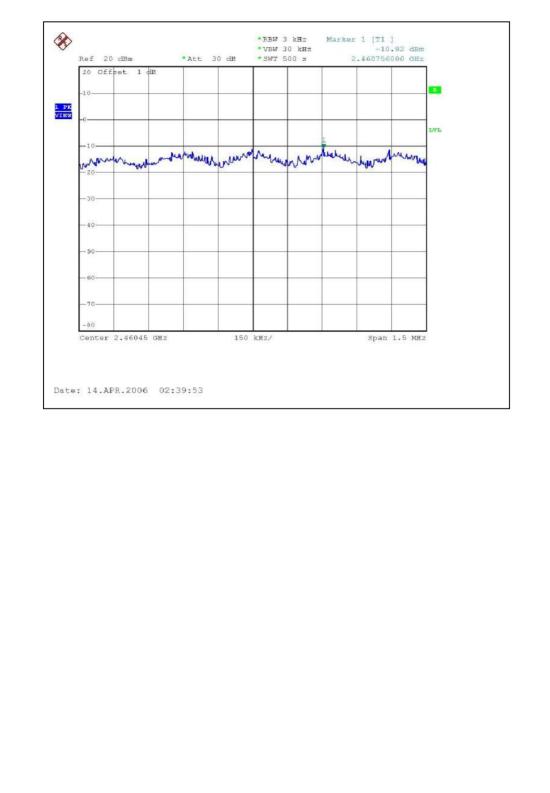






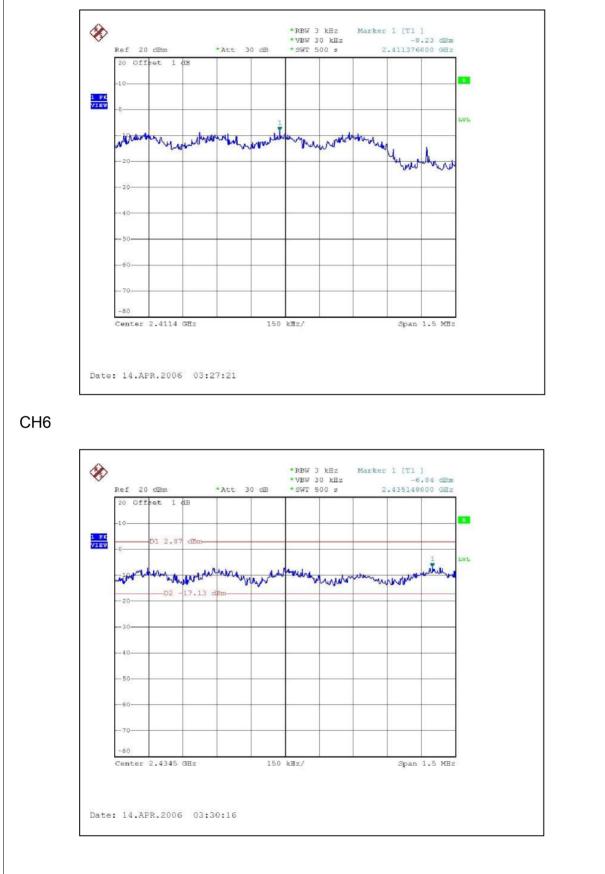
FOR CHAIN 1: CH1 Ø *RBW 3 kHz *VBW 30 kHz Marker 1 [T1] -7.17 dBm 2.412024000 GHz Ref 20 dBm *Att 30 dB • SWT 500 a 20 Offset 1 dB 1 PK VIEW in much work out by warmented any appearable very a april a way 3 ā, Center 2.412024 GHz 150 kHz/ Span 1.5 MHz Date: 14.APR.2006 02:32:03 CH6 Ø *RBW 3 kHz *VBW 30 kHz Marker 1 [T1] -7.66 dBm 2.439518000 GHz Ref 20 dBm *Att 30 dB * SWT 500 s 20 Offset 1 dB 1 PK VIEW 171 mounder man when the stand why who 10 manne rella 40 -50 -80 Center 2.4395 GHz 150 kHz/ Span 1.5 MHz Date: 14.APR.2006 02:38:50



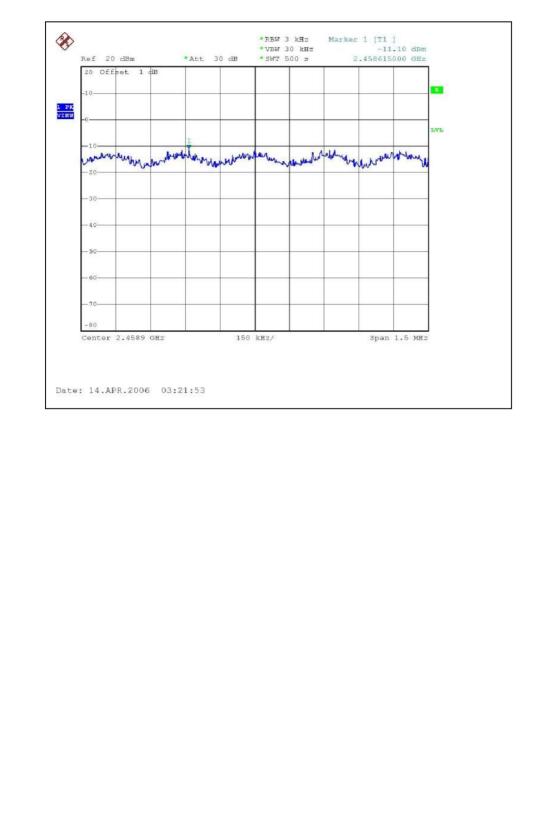




FOR CHAIN 2: CH1









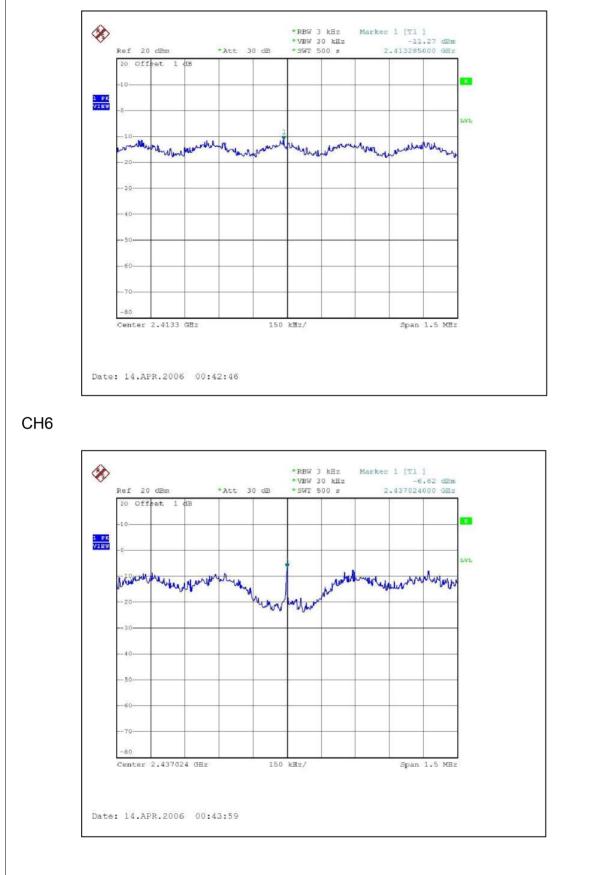
DRAFT 802.11n (20MHz) OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	6.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH, 964hPa
TESTED BY	Moris Lin		

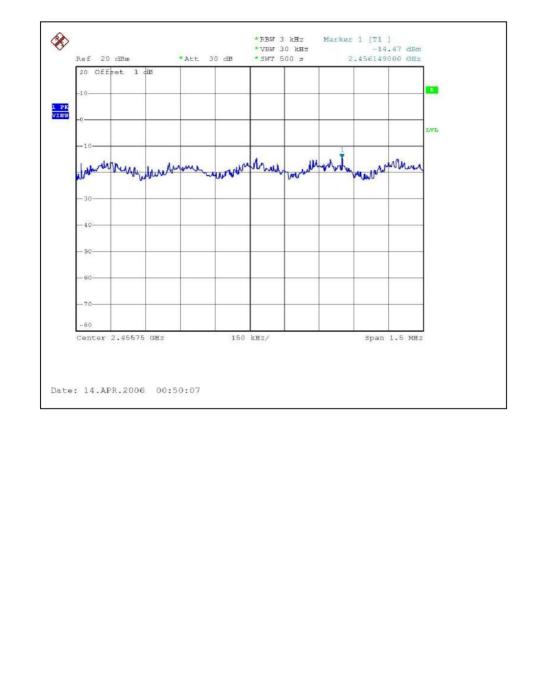
CHANNEL	CHANNEL FREQUENCY	RF POWER LEVEL IN 3kHz BW (dBm) MAXIMUM			PASS / FAIL		
	(MHz)		CHAIN 1	CHAIN 2	LIMIT (dBm)		
1	2412	-11.27	-10.79	-10.13	8	PASS	
6	2437	-6.62	-8.17	-6.66	8	PASS	
11	2462	-14.47	-12.30	-12.38	8	PASS	



FOR CHAIN 0: CH1



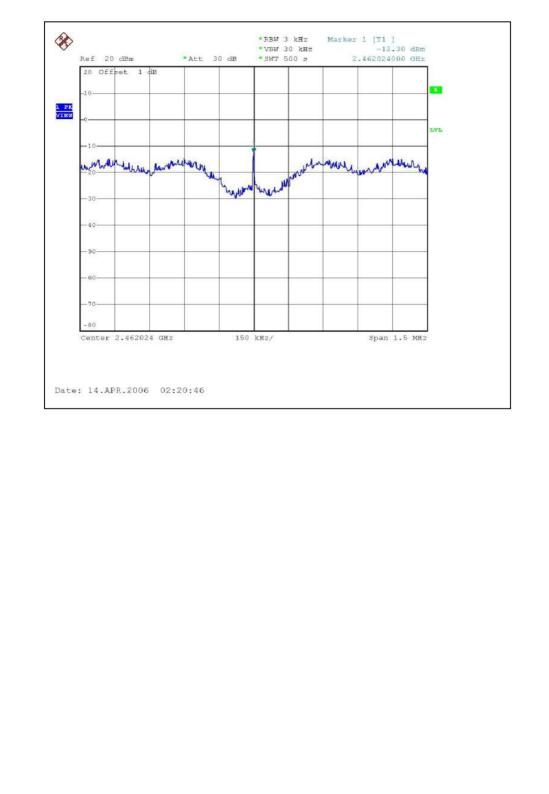






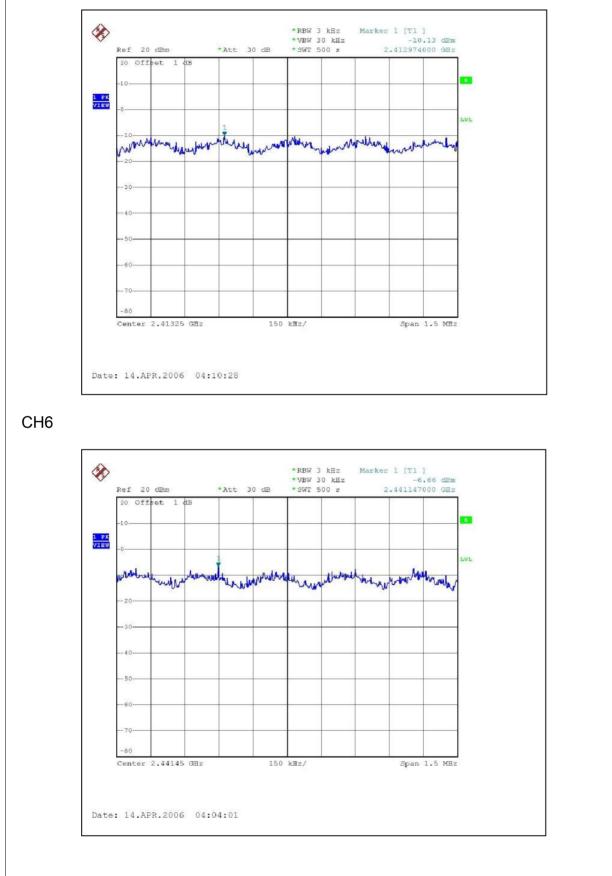
FOR CHAIN 1: CH1 Ø Marker 1 [T1] -10.79 dBm 2.410522000 GHz *RBW 3 kHz *VBW 30 kHz *SWT 500 s Ref 20 dBm *Att 30 dB 20 Offeet 1 dB 1 PK VIEW moundly how why the werden werden with an and the second of the second se wh -30 Center 2.41075 GHz 150 kHz/ Span 1.5 MHz Date: 14.APR.2006 02:10:45 CH6 Ø *RBW 3 kHz *VBW 30 kHz Marker 1 [T1] -8.17 dBm 2.439900000 GHz *SWT 500 s Ref 20 dBm *Att 30 dB 20 Offset 1 dB 1 PK VIEW all the population and and the server with unu 40 -50 -80 Center 2.4402 GHz 150 kHz/ Span 1.5 MHz Date: 14.APR.2006 02:12:00



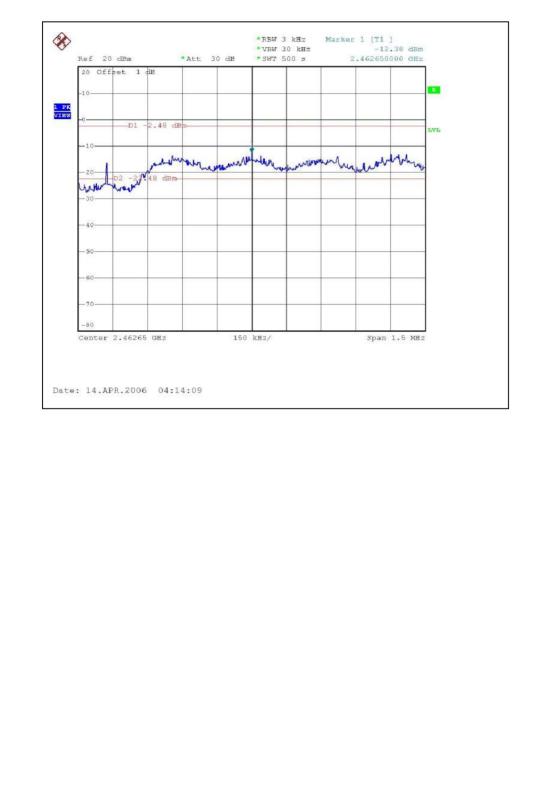




FOR CHAIN 2: CH1









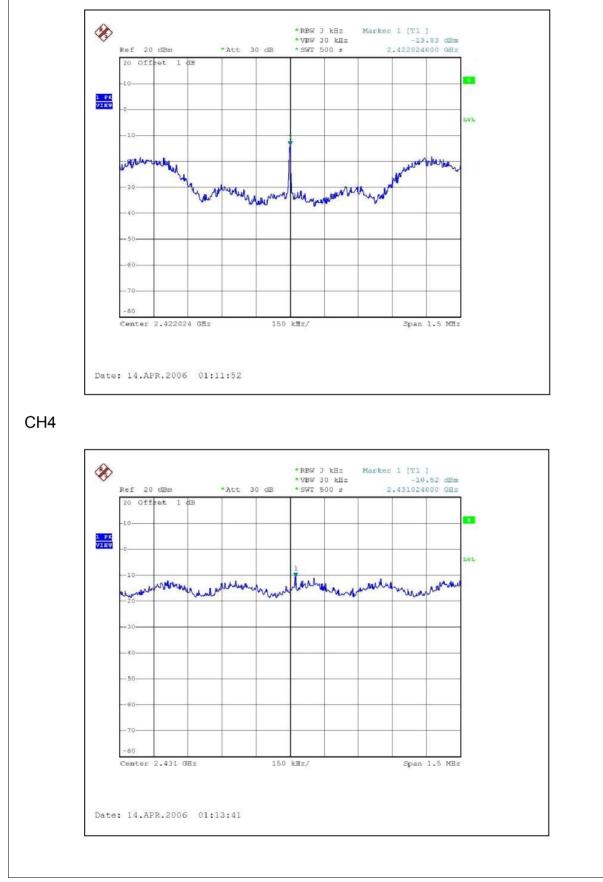
DRAFT 802.11n (40MHz) OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	13.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH, 964hPa
TESTED BY	Moris Lin		

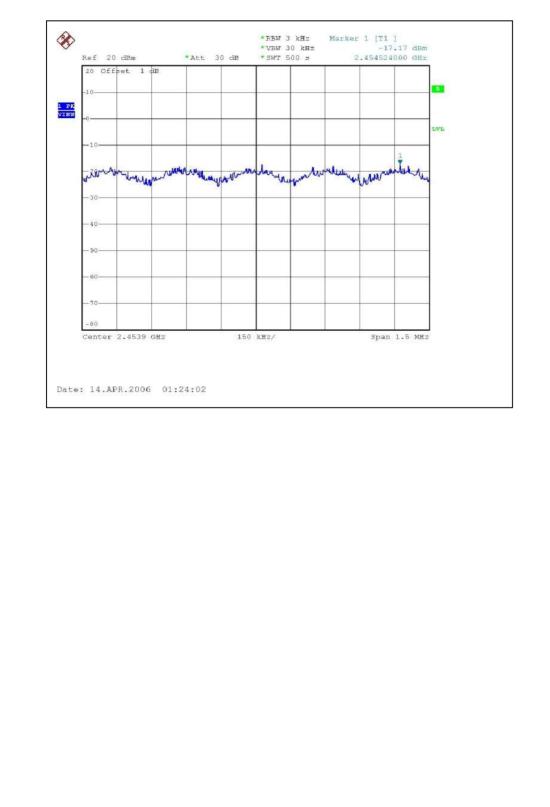
CHANNEL	CHANNEL FREQUENCY		'ER LEVEL BW (dBm)			PASS / FAIL	
	(MHz)		CHAIN 1	CHAIN 2	LIMIT (dBm)		
1	2422	-13.83	-14.05	-16.07	8	PASS	
4	2437	-10.52	-12.29	-10.96	8	PASS	
7	2452	-17.17	-16.40	-15.38	8	PASS	



FOR CHAIN 0: CH1



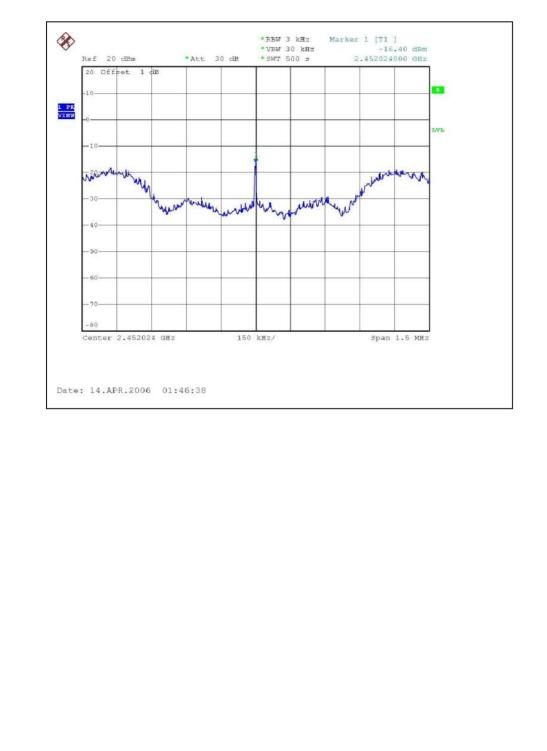






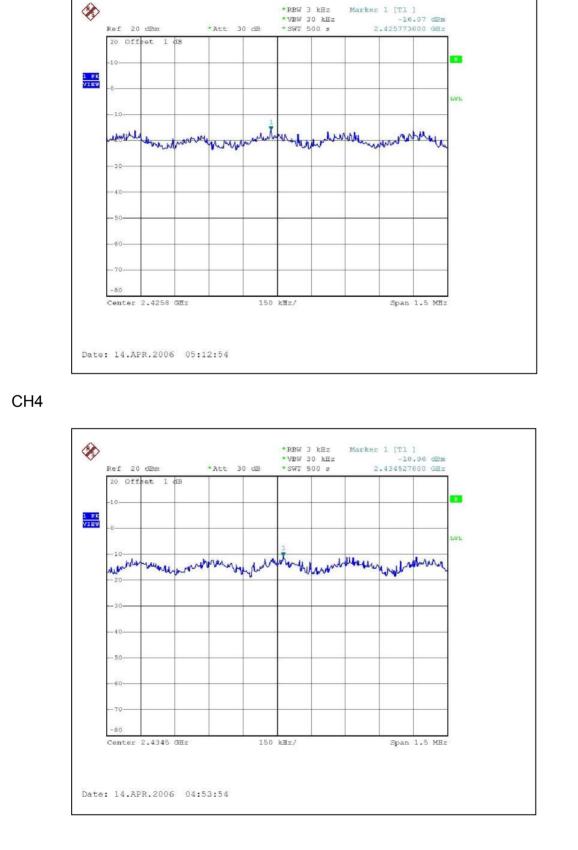
FOR CHAIN 1: CH1 Ø Marker 1 [T1] -14.05 dBm 2.422024000 GHz *RBW 3 kHz *VBW 30 kHz *SWT 500 s Ref 20 dBm *Att 30 dB 20 Offset 1 dB 1 PK VIEW montalla. willy. 1. SAIN 3 had marked and man and a start of the second and the second s Center 2.422024 GHz 150 kHz/ Span 1.5 MHz Date: 14.APR.2006 02:00:34 CH4 Ø *RBW 3 kHz *VBW 30 kHz Marker 1 [T1] -12.29 dBm 2.427646000 GHz *SWT 500 s Ref 20 dBm *Att 30 dB 20 Offset 1 dB 1 PR VIEW VL -10 when manula mound Wenterel My Mak -40 - 50--80 Center 2.428 GHz 150 kHz/ Span 1.5 MHz Date: 14.APR.2006 01:55:33



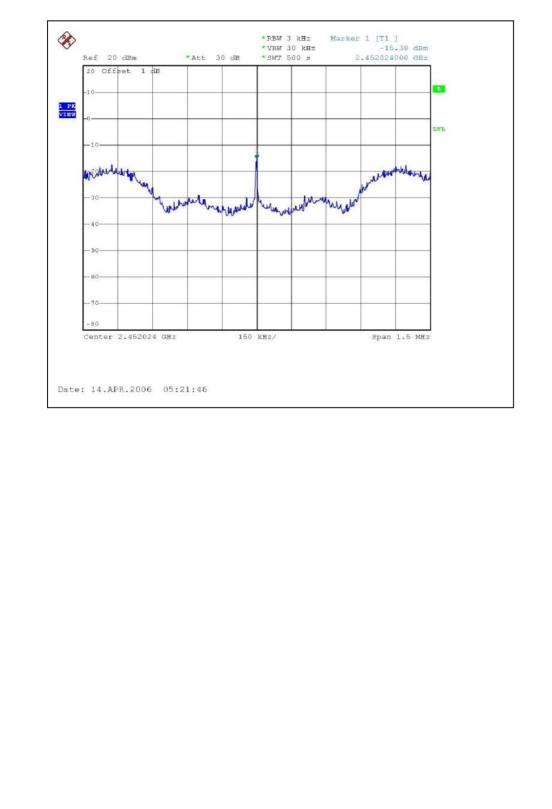




FOR CHAIN 2: CH1









4.6 CONDUCTED EMISSION AND BAND EDGES MEASUREMENT

4.6.1 LIMITS OF CONDTCTED EMISSION AND BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until	
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006	

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (RBW = VBW = 100kHz) are attached on the following pages.



4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

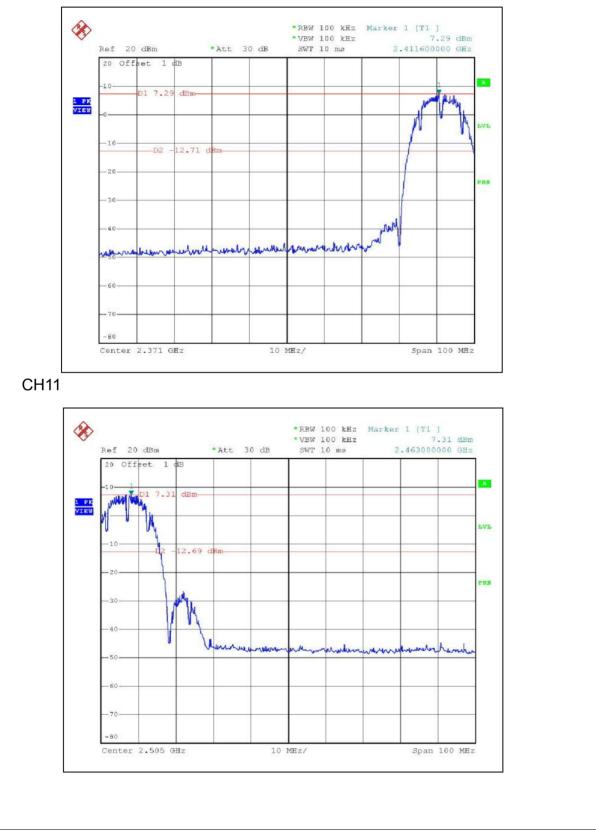
4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

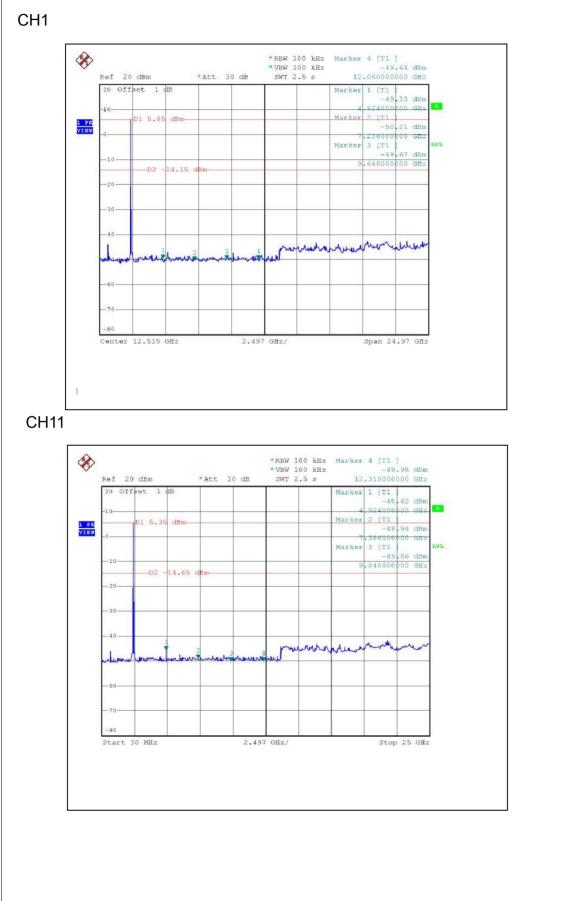


802.11b DSSS MODULATION:



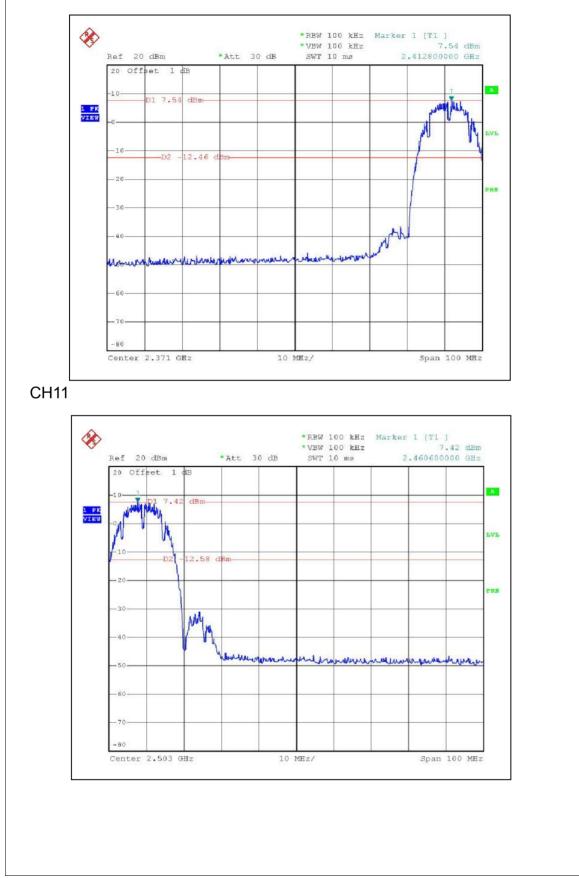




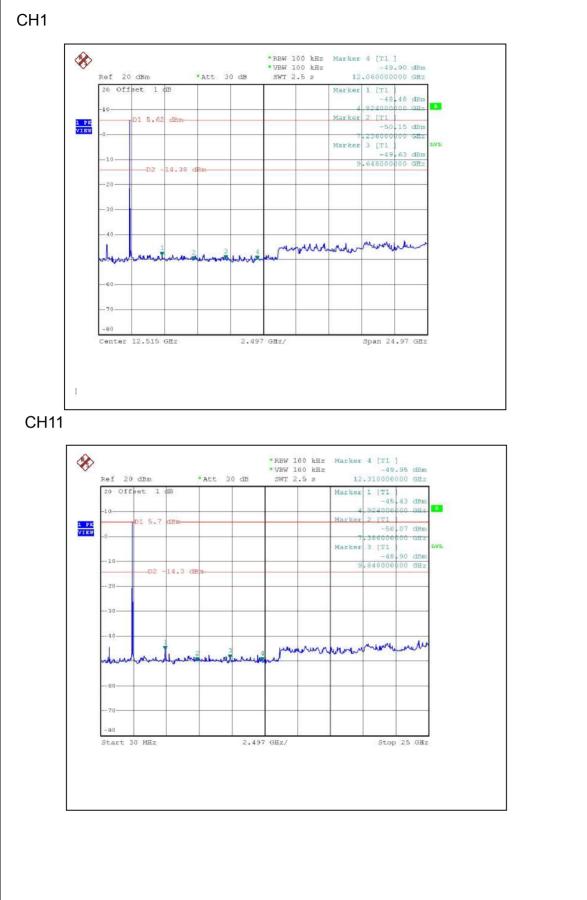




FOR CHAIN 1:CH1

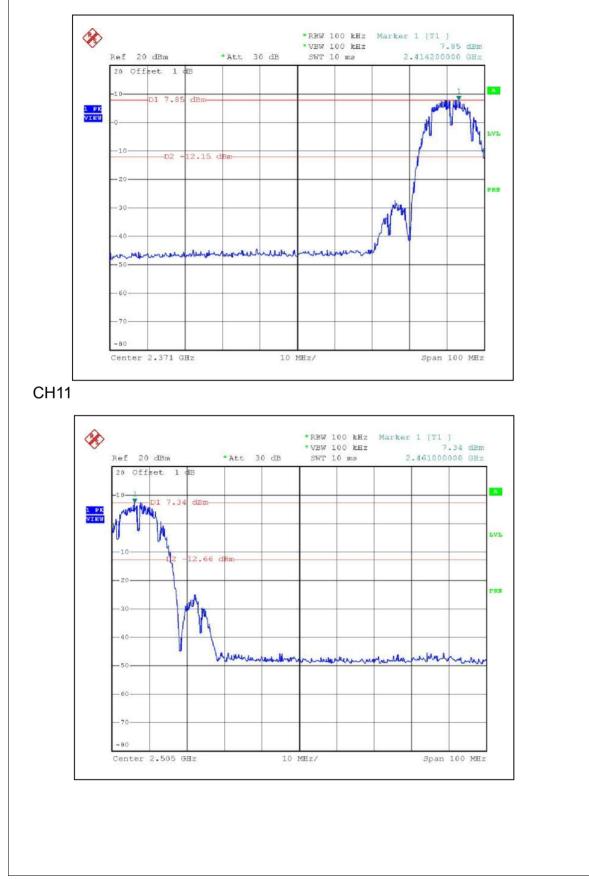




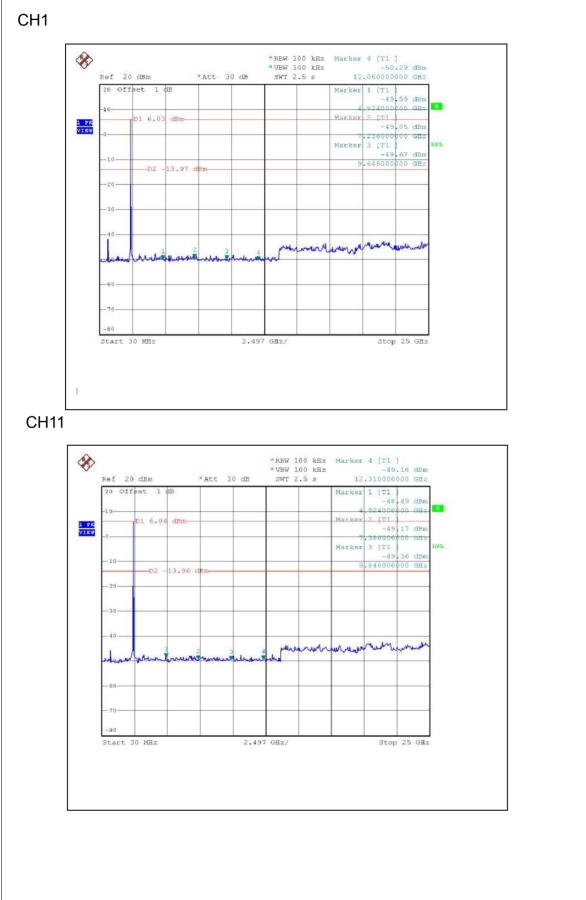




FOR CHAIN 2:CH1

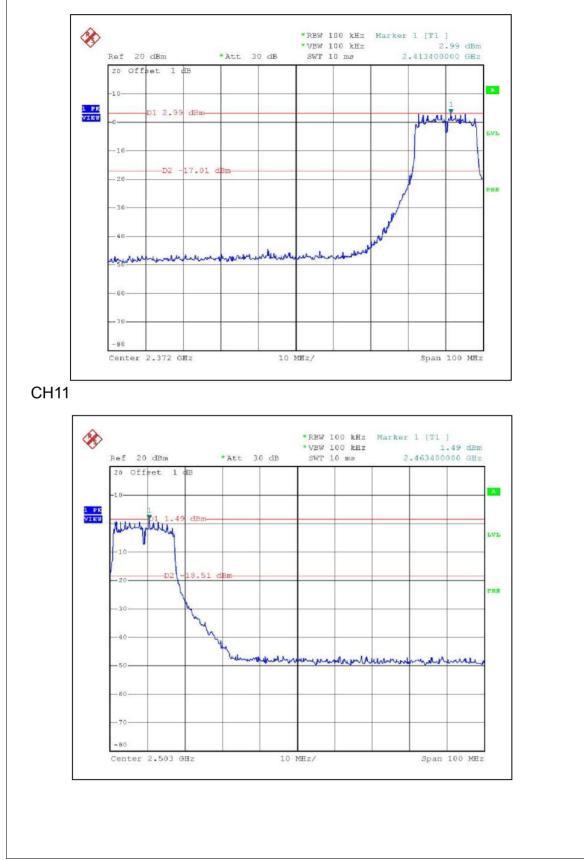






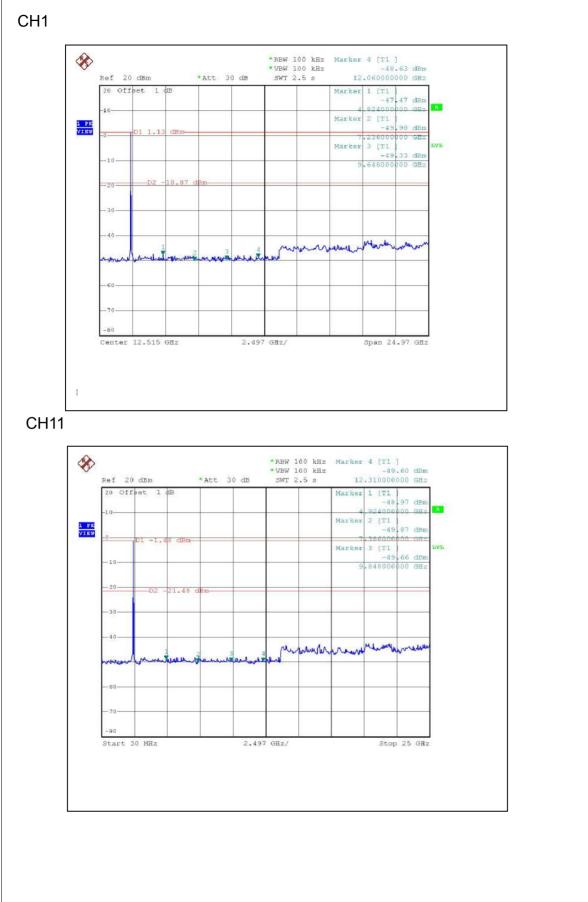


802.11g OFDM MODULATION: FOR CHAIN 0:CH1



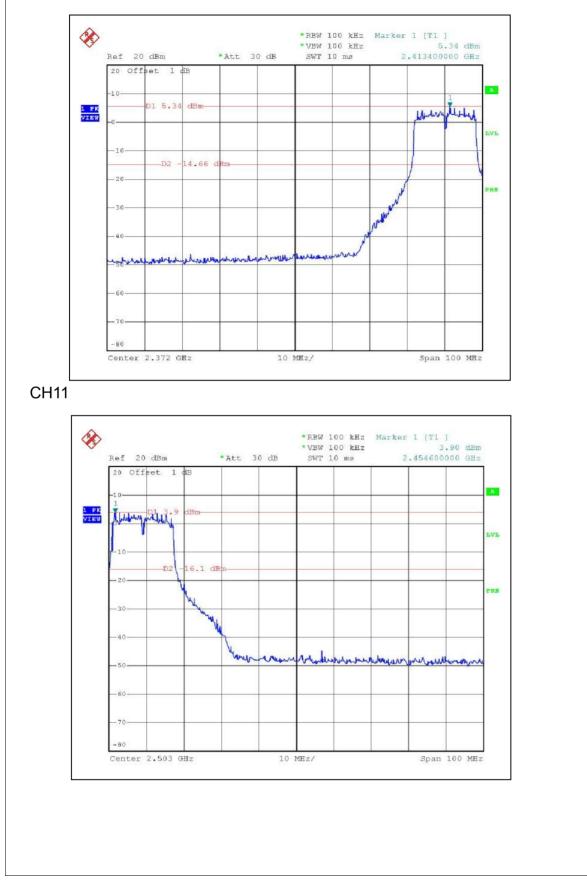
Report No.: RF950410H05



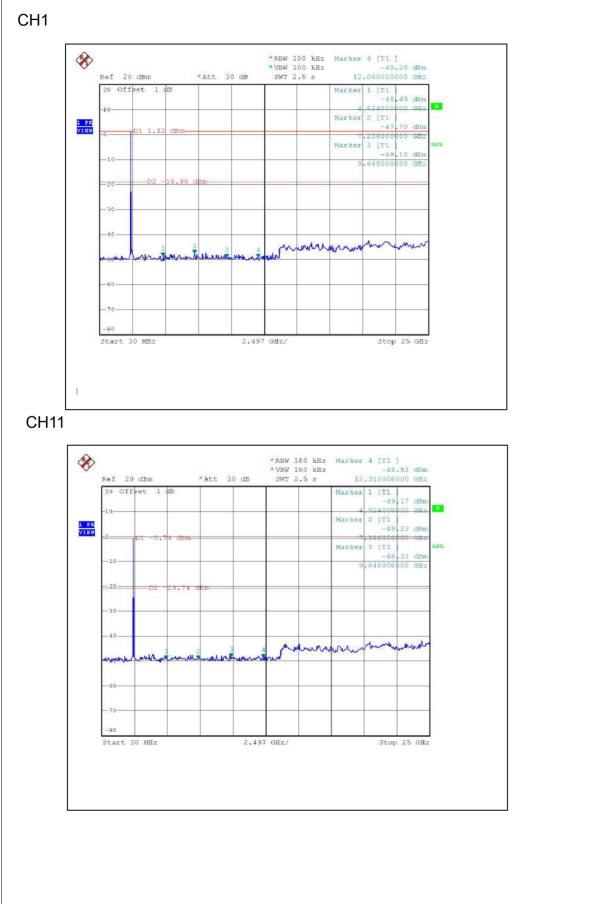




FOR CHAIN 1:CH1

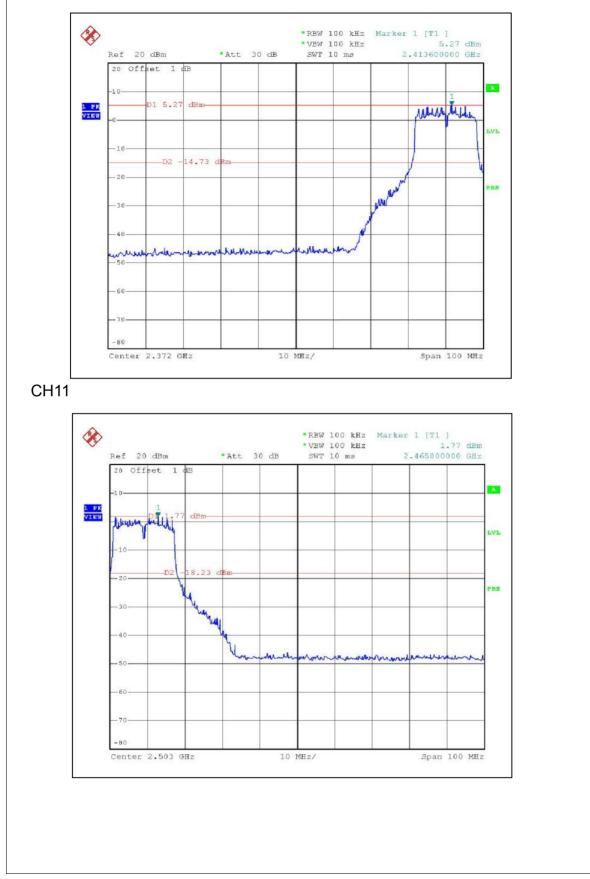




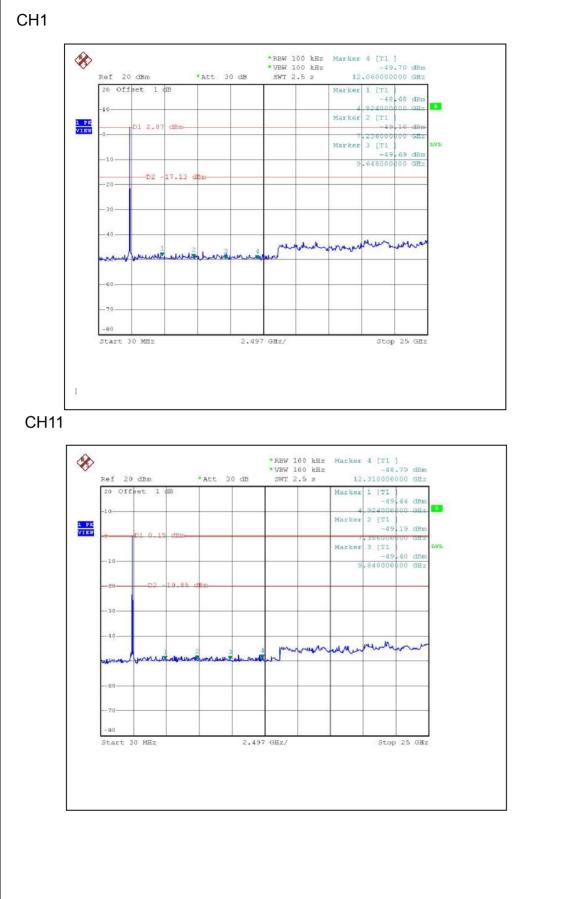




FOR CHAIN 2:CH1

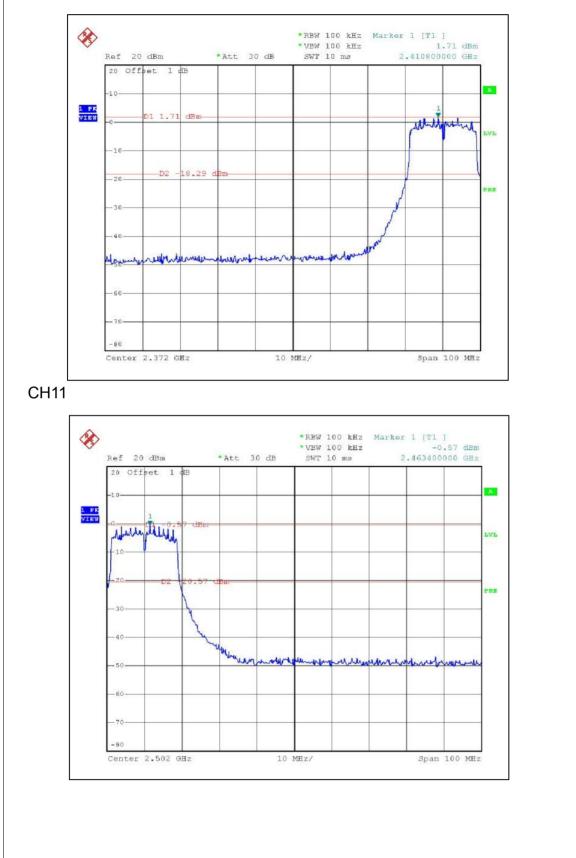




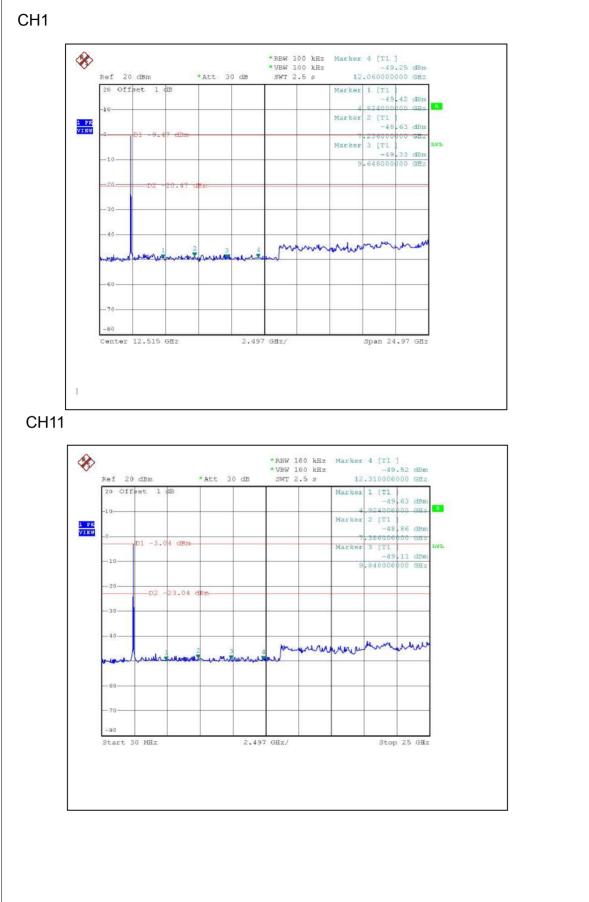




DRAFT 802.11n (20MHz) OFDM MODULATION: FOR CHAIN 0:CH1

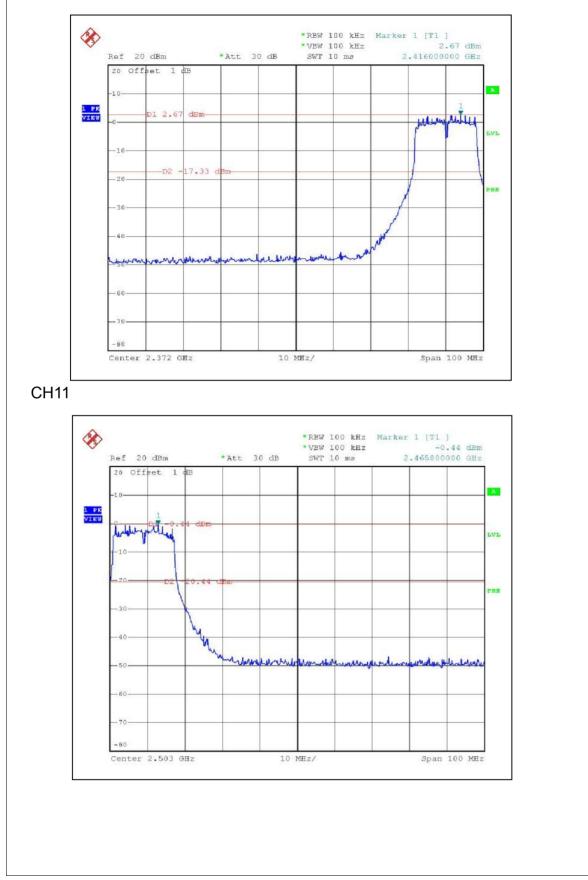




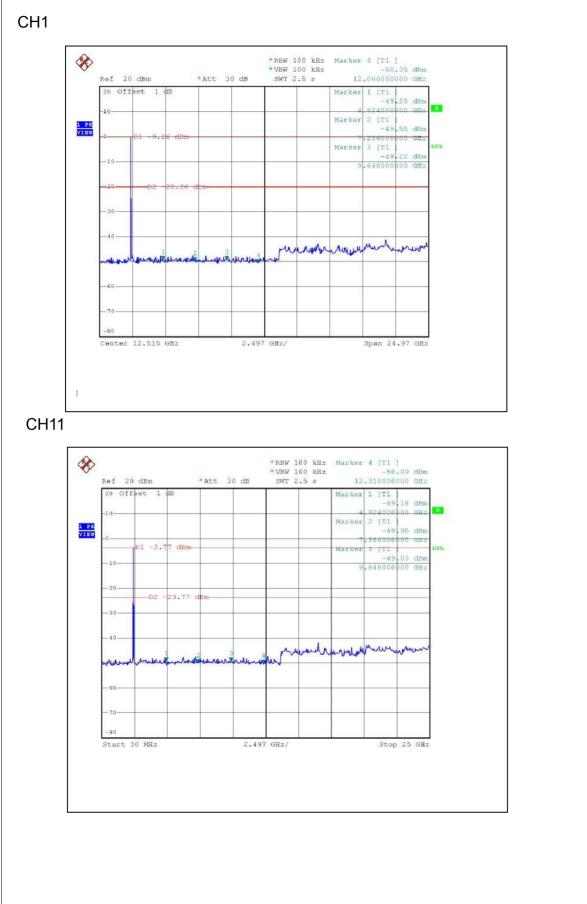




FOR CHAIN 1:CH1

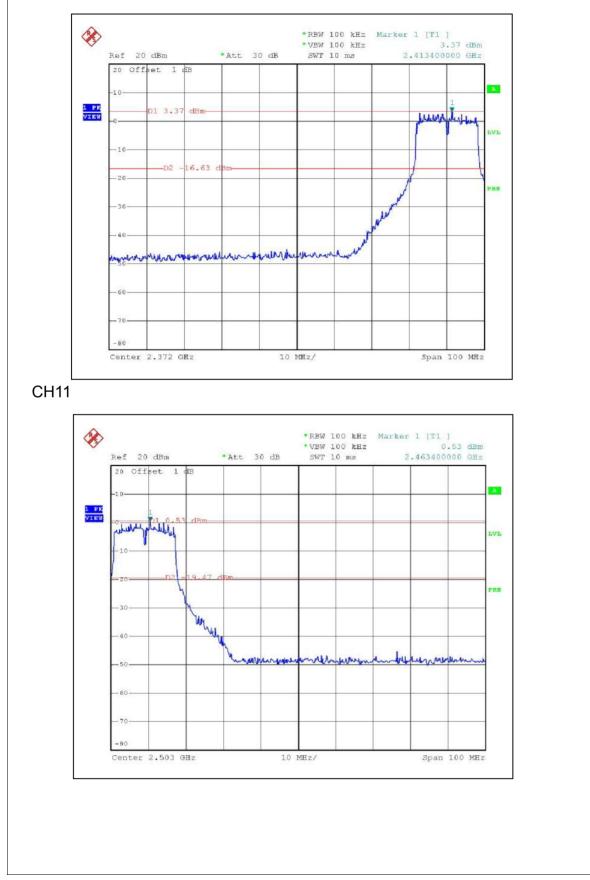




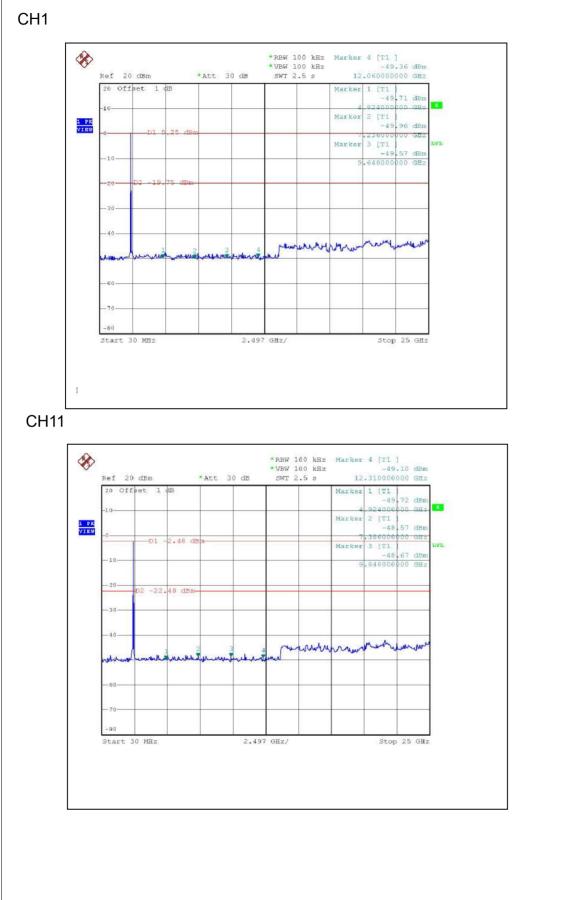




FOR CHAIN 2:CH1

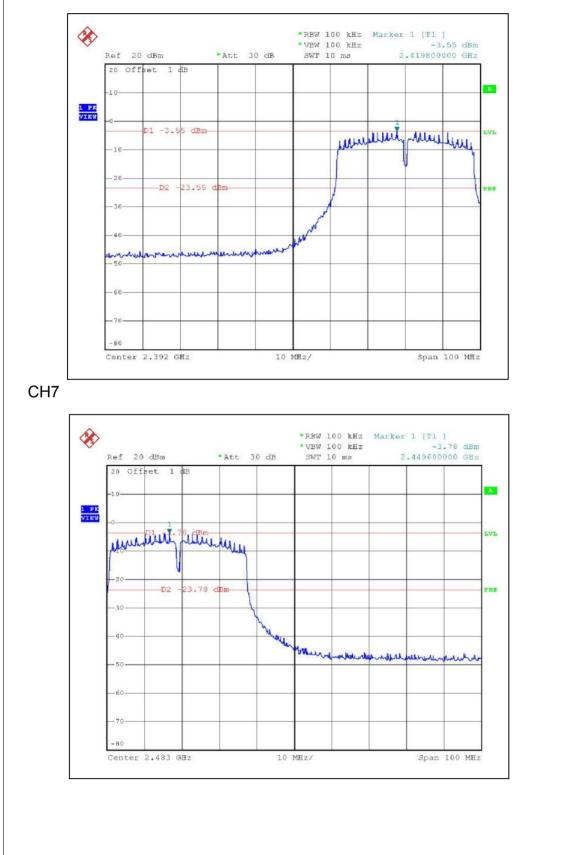




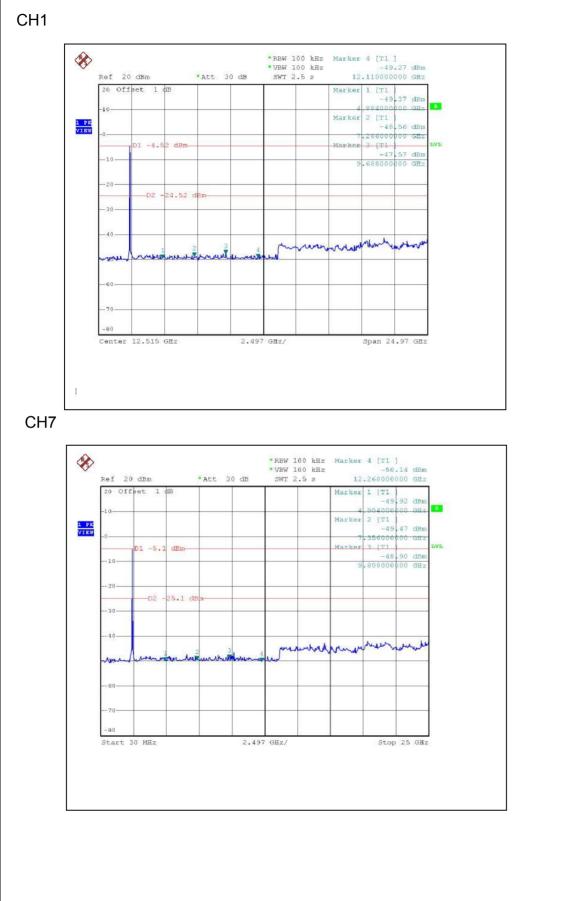




DRAFT 802.11n (40MHz) OFDM MODULATION: FOR CHAIN 0:CH1

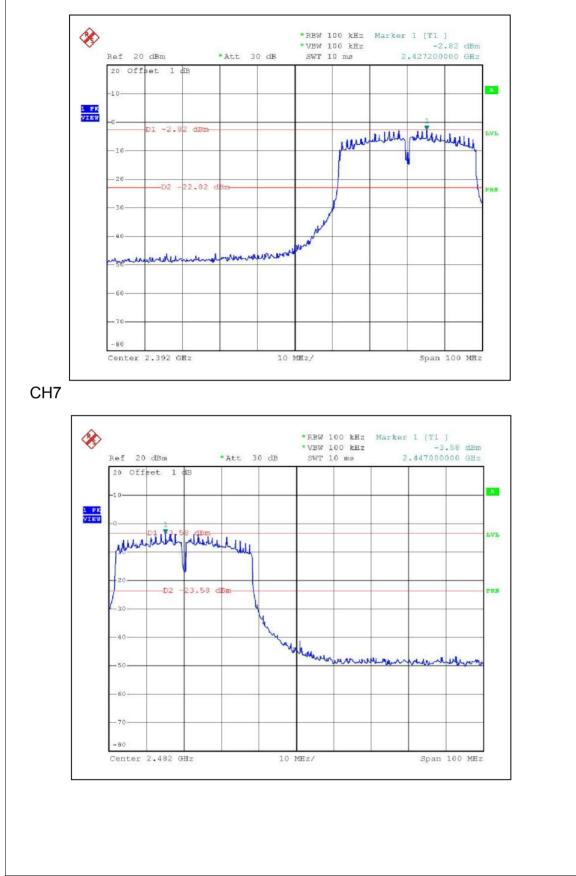




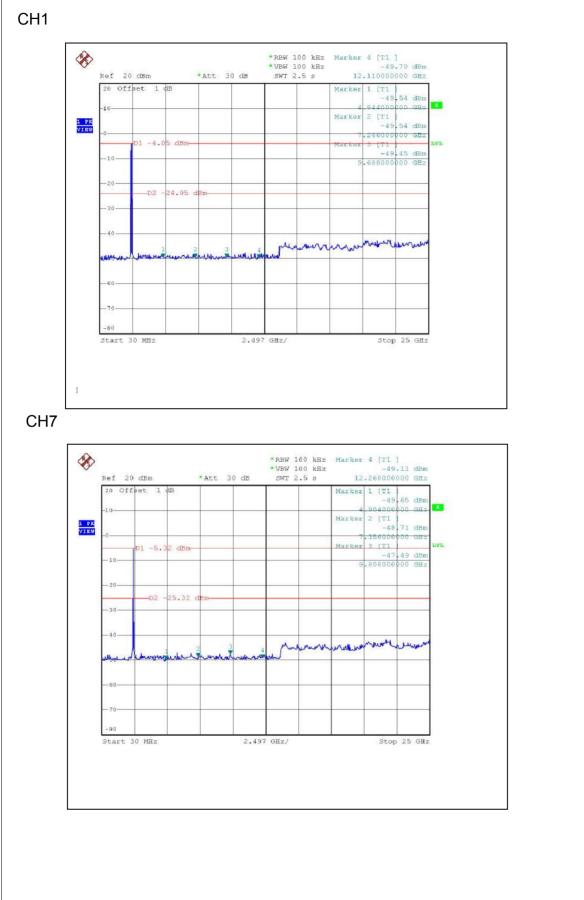




FOR CHAIN 1:CH1

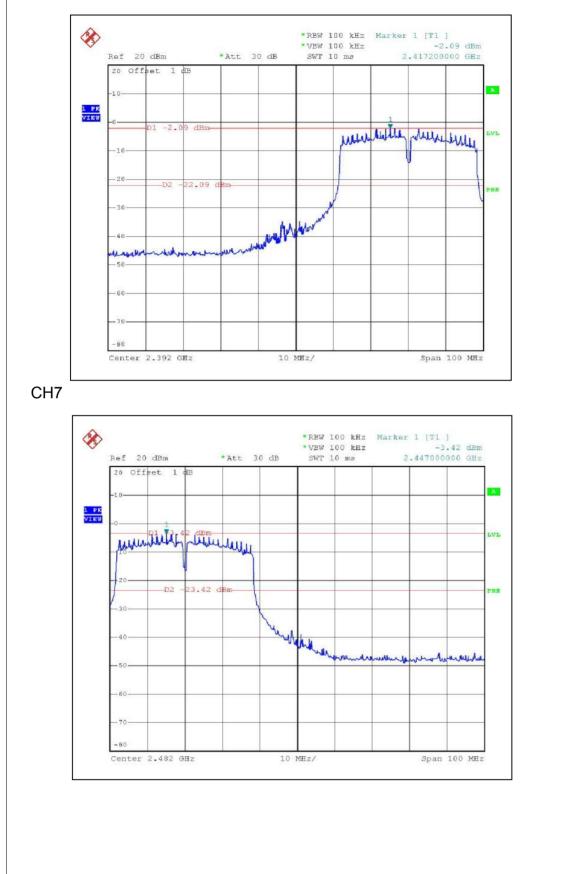




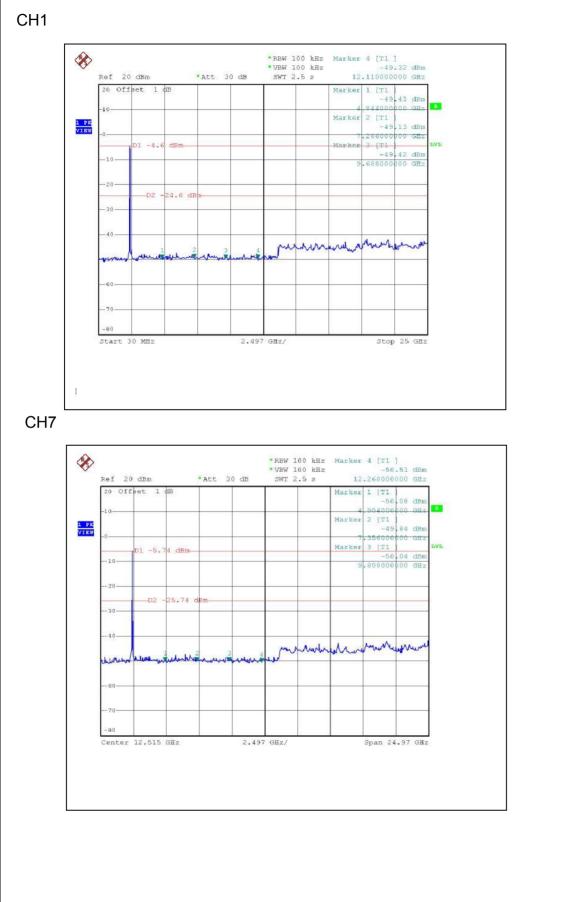




FOR CHAIN 2:CH1









4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

There are three dipole antennas provided to this EUT, all the antennas are the same.

The information of the antenna, please refer to the following table:

Gain (dBi)	Cable lose(dB)	Antenna Type	Antenna Connector
1.8	0.4	Dipole	HRS RF



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST





RADIATED EMISSION TEST





6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, UL, A2LA	
Germany	TUV Rheinland	
Japan	VCCI	
Norway	NEMKO	
Canada	INDUSTRY CANADA , CSA	
R.O.C.	CNLA, BSMI, DGT	
Netherlands	Telefication	
Singapore	PSB , GOST-ASIA(MOU)	
Russia	CERTIS(MOU)	

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

<u>www.adt.com.tw/index.5/phtml</u>. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Tel: 886-2-26052180 Fax: 886-2-26052943 Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab: Tel: 886-3-3183232 Fax: 886-3-3185050

Web Site: <u>www.adt.com.tw</u>

The address and road map of all our labs can be found in our web site also.



APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.